

\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 13:39:06 ON 07 MAY 2008

=> fil .bec

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

FILES 'MEDLINE, SCISEARCH, LIFESCI, BIOTECHDS, BIOSIS, EMBASE, HCAPLUS, NTIS,  
ESBIOBASE, BIOTECHNO, WPIDS' ENTERED AT 13:39:21 ON 07 MAY 2008  
ALL COPYRIGHTS AND RESTRICTIONS APPLY. SEE HELP USAGETERMS FOR DETAILS.

11 FILES IN THE FILE LIST

=> s cysk or cysteine synthase#

FILE 'MEDLINE'

82 CYSK

73445 CYSTEINE

107612 SYNTHASE#

269 CYSTEINE SYNTHASE#

(CYSTEINE(W)SYNTHASE#)

L1 309 CYSK OR CYSTEINE SYNTHASE#

FILE 'SCISEARCH'

58 CYSK

55567 CYSTEINE

129731 SYNTHASE#

242 CYSTEINE SYNTHASE#

(CYSTEINE(W)SYNTHASE#)

L2 280 CYSK OR CYSTEINE SYNTHASE#

FILE 'LIFESCI'

53 CYSK

21199 "CYSTEINE"

29544 SYNTHASE#

109 CYSTEINE SYNTHASE#

("CYSTEINE"(W)SYNTHASE#)

L3 146 CYSK OR CYSTEINE SYNTHASE#

FILE 'BIOTECHDS'

58 CYSK

5098 CYSTEINE

7240 SYNTHASE#

70 CYSTEINE SYNTHASE#

(CYSTEINE(W)SYNTHASE#)

L4 95 CYSK OR CYSTEINE SYNTHASE#

FILE 'BIOSIS'

82 CYSK

72786 CYSTEINE

118475 SYNTHASE#

275 CYSTEINE SYNTHASE#

(CYSTEINE(W)SYNTHASE#)

L5 335 CYSK OR CYSTEINE SYNTHASE#

FILE 'EMBASE'

65 CYSK

57869 "CYSTEINE"

108341 SYNTHASE#

233 CYSTEINE SYNTHASE#

("CYSTEINE"(W)SYNTHASE#)

L6 266 CYSK OR CYSTEINE SYNTHASE#

FILE 'HCAPLUS'

207 CYSK  
113054 CYSTEINE  
114637 SYNTHASE#  
426 CYSTEINE SYNTHASE#  
(CYSTEINE(W)SYNTHASE#)

L7 537 CYSK OR CYSTEINE SYNTHASE#

FILE 'NTIS'

0 CYSK  
521 CYSTEINE  
294 SYNTHASE#  
0 CYSTEINE SYNTHASE#  
(CYSTEINE(W)SYNTHASE#)

L8 0 CYSK OR CYSTEINE SYNTHASE#

FILE 'ESBIOBASE'

46 CYSK  
28558 CYSTEINE  
54244 SYNTHASE#  
124 CYSTEINE SYNTHASE#  
(CYSTEINE(W)SYNTHASE#)

L9 154 CYSK OR CYSTEINE SYNTHASE#

FILE 'BIOTECHNO'

43 CYSK  
22339 CYSTEINE  
29457 SYNTHASE#  
130 CYSTEINE SYNTHASE#  
(CYSTEINE(W)SYNTHASE#)

L10 151 CYSK OR CYSTEINE SYNTHASE#

FILE 'WPIDS'

52 CYSK  
11722 CYSTEINE  
6793 SYNTHASE#  
51 CYSTEINE SYNTHASE#  
(CYSTEINE(W)SYNTHASE#)

L11 72 CYSK OR CYSTEINE SYNTHASE#

TOTAL FOR ALL FILES

L12 2345 CYSK OR CYSTEINE SYNTHASE#

=> s (serine or ser)(15a)(rich or high or level# or yield# or optimiz?)

FILE 'MEDLINE'

104476 SERINE  
24227 SER  
97298 RICH  
1628405 HIGH  
1728866 LEVEL#  
148032 YIELD#  
86595 OPTIMIZ?

L13 6126 (SERINE OR SER)(15A)(RICH OR HIGH OR LEVEL# OR YIELD# OR OPTIMIZ  
?)

FILE 'SCISEARCH'

60386 SERINE  
25468 SER  
182902 RICH  
2495375 HIGH

1857333 LEVEL#  
469670 YIELD#  
296759 OPTIMIZ?  
L14 5582 (SERINE OR SER) (15A) (RICH OR HIGH OR LEVEL# OR YIELD# OR OPTIMIZ  
?)

FILE 'LIFESCI'

25076 SERINE  
12695 SER  
42324 RICH  
452482 HIGH  
519831 LEVEL#  
64869 YIELD#  
23816 OPTIMIZ?  
L15 3464 (SERINE OR SER) (15A) (RICH OR HIGH OR LEVEL# OR YIELD# OR OPTIMIZ  
?)

FILE 'BIOTECHDS'

5782 SERINE  
5928 SER  
5272 RICH  
85899 HIGH  
60173 LEVEL#  
43309 YIELD#  
21488 OPTIMIZ?  
L16 708 (SERINE OR SER) (15A) (RICH OR HIGH OR LEVEL# OR YIELD# OR OPTIMIZ  
?)

FILE 'BIOSIS'

82532 SERINE  
26259 SER  
134104 RICH  
1833264 HIGH  
1945774 LEVEL#  
380018 YIELD#  
85361 OPTIMIZ?  
L17 7142 (SERINE OR SER) (15A) (RICH OR HIGH OR LEVEL# OR YIELD# OR OPTIMIZ  
?)

FILE 'EMBASE'

67554 SERINE  
24058 SER  
86612 RICH  
1556063 HIGH  
1965291 LEVEL#  
157476 YIELD#  
82286 OPTIMIZ?  
L18 5467 (SERINE OR SER) (15A) (RICH OR HIGH OR LEVEL# OR YIELD# OR OPTIMIZ  
?)

FILE 'HCAPLUS'

119700 SERINE  
38596 SER  
315641 RICH  
4313341 HIGH  
2553316 LEVEL#  
1269022 YIELD#  
360435 OPTIMIZ?  
L19 10355 (SERINE OR SER) (15A) (RICH OR HIGH OR LEVEL# OR YIELD# OR OPTIMIZ  
?)

FILE 'NTIS'

578 SERINE  
438 SER  
9733 RICH  
340332 HIGH  
238143 LEVEL#  
56808 YIELD#  
62468 OPTIMIZ?  
L20 81 (SERINE OR SER) (15A) (RICH OR HIGH OR LEVEL# OR YIELD# OR OPTIMIZ  
?)

FILE 'ESBIOBASE'

32396 SERINE  
14901 SER  
56532 RICH  
641710 HIGH  
717809 LEVEL#  
95471 YIELD#  
42201 OPTIMIZ?  
L21 4374 (SERINE OR SER) (15A) (RICH OR HIGH OR LEVEL# OR YIELD# OR OPTIMIZ  
?)

FILE 'BIOTECHNO'

28989 SERINE  
11924 SER  
29372 RICH  
299126 HIGH  
367944 LEVEL#  
41645 YIELD#  
16086 OPTIMIZ?  
L22 3241 (SERINE OR SER) (15A) (RICH OR HIGH OR LEVEL# OR YIELD# OR OPTIMIZ  
?)

FILE 'WPIDS'

11087 SERINE  
13584 SER  
41223 RICH  
2375938 HIGH  
706149 LEVEL#  
314587 YIELD#  
61673 OPTIMIZ?  
L23 705 (SERINE OR SER) (15A) (RICH OR HIGH OR LEVEL# OR YIELD# OR OPTIMIZ  
?)

TOTAL FOR ALL FILES

L24 47245 (SERINE OR SER) (15A) (RICH OR HIGH OR LEVEL# OR YIELD# OR OPTIMIZ  
?)

=> s 112 and 124

FILE 'MEDLINE'

L25 13 L1 AND L13

FILE 'SCISEARCH'

L26 9 L2 AND L14

FILE 'LIFESCI'

L27 6 L3 AND L15

FILE 'BIOTECHDS'

L28 2 L4 AND L16

FILE 'BIOSIS'

L29 9 L5 AND L17

```

FILE 'EMBASE'
L30          6 L6 AND L18

FILE 'HCAPLUS'
L31          12 L7 AND L19

FILE 'NTIS'
L32          0 L8 AND L20

FILE 'ESBIOBASE'
L33          5 L9 AND L21

FILE 'BIOTECHNO'
L34          8 L10 AND L22

FILE 'WPIDS'
L35          1 L11 AND L23

TOTAL FOR ALL FILES
L36          71 L12 AND L24

=> s l12 and coexpress?
FILE 'MEDLINE'
      15797 COEXPRESS?
L37          2 L1 AND COEXPRESS?

FILE 'SCISEARCH'
      16293 COEXPRESS?
L38          2 L2 AND COEXPRESS?

FILE 'LIFESCI'
      7659 COEXPRESS?
L39          2 L3 AND COEXPRESS?

FILE 'BIOTECHDS'
      826 COEXPRESS?
L40          1 L4 AND COEXPRESS?

FILE 'BIOSIS'
      16063 COEXPRESS?
L41          2 L5 AND COEXPRESS?

FILE 'EMBASE'
      14913 COEXPRESS?
L42          1 L6 AND COEXPRESS?

FILE 'HCAPLUS'
      15129 COEXPRESS?
L43          2 L7 AND COEXPRESS?

FILE 'NTIS'
      39 COEXPRESS?
L44          0 L8 AND COEXPRESS?

FILE 'ESBIOBASE'
      11681 COEXPRESS?
L45          1 L9 AND COEXPRESS?

FILE 'BIOTECHNO'
      7587 COEXPRESS?
L46          1 L10 AND COEXPRESS?

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FILE 'WPIDS'
    215 COEXPRESS?
L47      0 L11 AND COEXPRESS?

TOTAL FOR ALL FILES
L48      14 L12 AND COEXPRESS?

=> s (amino acid or ser or serine) (15a) (composition# or profil?)
FILE 'MEDLINE'
    679698 AMINO
    1545785 ACID
    512917 AMINO ACID
            (AMINO (W) ACID)
    24227 SER
    104476 SERINE
    189419 COMPOSITION#
    295830 PROFIL?
L49      14609 (AMINO ACID OR SER OR SERINE) (15A) (COMPOSITION# OR PROFIL?)

FILE 'SCISEARCH'
    436194 AMINO
    1284495 ACID
    229538 AMINO ACID
            (AMINO (W) ACID)
    25468 SER
    60386 SERINE
    481688 COMPOSITION#
    450081 PROFIL?
L50      10441 (AMINO ACID OR SER OR SERINE) (15A) (COMPOSITION# OR PROFIL?)

FILE 'LIFESCI'
    188499 "AMINO"
    346634 "ACID"
    128460 AMINO ACID
            ("AMINO" (W) "ACID")
    12695 SER
    25076 SERINE
    112277 COMPOSITION#
    70621 PROFIL?
L51      6520 (AMINO ACID OR SER OR SERINE) (15A) (COMPOSITION# OR PROFIL?)

FILE 'BIOTECHDS'
    77138 AMINO
    156885 ACID
    56317 AMINO ACID
            (AMINO (W) ACID)
    5928 SER
    5782 SERINE
    48820 COMPOSITION#
    13472 PROFIL?
L52      3057 (AMINO ACID OR SER OR SERINE) (15A) (COMPOSITION# OR PROFIL?)

FILE 'BIOSIS'
    607898 AMINO
    1529894 ACID
    351102 AMINO ACID
            (AMINO (W) ACID)
    26259 SER
    82532 SERINE
    399670 COMPOSITION#
    283754 PROFIL?

```

L53            25509 (AMINO ACID OR SER OR SERINE) (15A) (COMPOSITION# OR PROFIL?)

FILE 'EMBASE'

      477055 "AMINO"

      1561386 "ACID"

      322430 AMINO ACID

              ("AMINO" (W) "ACID")

      24058 SER

      67554 SERINE

      169493 COMPOSITION#

      246818 PROFIL?

L54            13983 (AMINO ACID OR SER OR SERINE) (15A) (COMPOSITION# OR PROFIL?)

FILE 'HCAPLUS'

      1167276 AMINO

      4574559 ACID

      588346 AMINO ACID

              (AMINO (W) ACID)

      38596 SER

      119700 SERINE

      1045977 COMPOSITION#

      1531580 COMPN

      2132732 COMPOSITION#

              (COMPOSITION# OR COMPN)

      510830 PROFIL?

L55            40071 (AMINO ACID OR SER OR SERINE) (15A) (COMPOSITION# OR PROFIL?)

FILE 'NTIS'

      7322 AMINO

      45258 ACID

      2654 AMINO ACID

              (AMINO (W) ACID)

      438 SER

      578 SERINE

      72162 COMPOSITION#

      59406 PROFIL?

L56            237 (AMINO ACID OR SER OR SERINE) (15A) (COMPOSITION# OR PROFIL?)

FILE 'ESBIOBASE'

      205248 AMINO

      402935 ACID

      113740 AMINO ACID

              (AMINO (W) ACID)

      14901 SER

      32396 SERINE

      104790 COMPOSITION#

      121152 PROFIL?

L57            4140 (AMINO ACID OR SER OR SERINE) (15A) (COMPOSITION# OR PROFIL?)

FILE 'BIOTECHNO'

      204625 AMINO

      349810 ACID

      154660 AMINO ACID

              (AMINO (W) ACID)

      11924 SER

      28989 SERINE

      38895 COMPOSITION#

      42958 PROFIL?

L58            6366 (AMINO ACID OR SER OR SERINE) (15A) (COMPOSITION# OR PROFIL?)

FILE 'WPIDS'

      299450 AMINO

```

1143063 ACID
  87042 AMINO ACID
    (AMINO(W)ACID)
  13584 SER
  11087 SERINE
  845784 COMPOSITION#
    8849 COMPN
  398425 COMPSN
  114205 COMPSNS
  1029782 COMPOSITION#
    (COMPOSITION# OR COMPN OR COMPSN OR COMPSNS)
  221069 PROFIL?
L59      5574 (AMINO ACID OR SER OR SERINE) (15A) (COMPOSITION# OR PROFIL?)

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TOTAL FOR ALL FILES
L60      130507 (AMINO ACID OR SER OR SERINE) (15A) (COMPOSITION# OR PROFIL?)

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=> s 112 and 160

```

FILE 'MEDLINE'
L61      8 L1 AND L49

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FILE 'SCISEARCH'
L62      8 L2 AND L50

```

```

FILE 'LIFESCI'
L63      3 L3 AND L51

```

```

FILE 'BIOTECHDS'
L64      2 L4 AND L52

```

```

FILE 'BIOSIS'
L65      18 L5 AND L53

```

```

FILE 'EMBASE'
L66      8 L6 AND L54

```

```

FILE 'HCAPLUS'
L67      18 L7 AND L55

```

```

FILE 'NTIS'
L68      0 L8 AND L56

```

```

FILE 'ESBIOBASE'
L69      3 L9 AND L57

```

```

FILE 'BIOTECHNO'
L70      4 L10 AND L58

```

```

FILE 'WPIDS'
L71      2 L11 AND L59

```

```

TOTAL FOR ALL FILES
L72      74 L12 AND L60

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=> s (heterologous or foreign or recombinant) (5a)protein#(10a)(produc? or express?  
or optimiz?)

```

FILE 'MEDLINE'
  53007 HETEROLOGOUS
  65999 FOREIGN
  294716 RECOMBINANT
  2245712 PROTEIN#
  1479209 PRODUC?

```



1189611 EXPRESS?  
86595 OPTIMIZ?  
L73 11277 (HETEROLOGOUS OR FOREIGN OR RECOMBINANT) (5A)PROTEIN#(10A) (PRODUC  
? OR EXPRESS? OR OPTIMIZ?)

FILE 'SCISEARCH'

25505 HETEROLOGOUS  
35464 FOREIGN  
175583 RECOMBINANT  
1774394 PROTEIN#  
2135740 PRODUC?  
1526773 EXPRESS?  
296759 OPTIMIZ?  
L74 11472 (HETEROLOGOUS OR FOREIGN OR RECOMBINANT) (5A)PROTEIN#(10A) (PRODUC  
? OR EXPRESS? OR OPTIMIZ?)

FILE 'LIFESCI'

16860 HETEROLOGOUS  
9728 FOREIGN  
78715 RECOMBINANT  
683363 PROTEIN#  
600691 PRODUC?  
488130 EXPRESS?  
23816 OPTIMIZ?  
L75 8672 (HETEROLOGOUS OR FOREIGN OR RECOMBINANT) (5A)PROTEIN#(10A) (PRODUC  
? OR EXPRESS? OR OPTIMIZ?)

FILE 'BIOTECHDS'

12440 HETEROLOGOUS  
6925 FOREIGN  
110954 RECOMBINANT  
179354 PROTEIN#  
246622 PRODUC?  
166239 EXPRESS?  
21488 OPTIMIZ?  
L76 31791 (HETEROLOGOUS OR FOREIGN OR RECOMBINANT) (5A)PROTEIN#(10A) (PRODUC  
? OR EXPRESS? OR OPTIMIZ?)

FILE 'BIOSIS'

35675 HETEROLOGOUS  
35956 FOREIGN  
213769 RECOMBINANT  
2115796 PROTEIN#  
2167262 PRODUC?  
1447830 EXPRESS?  
85361 OPTIMIZ?  
L77 13912 (HETEROLOGOUS OR FOREIGN OR RECOMBINANT) (5A)PROTEIN#(10A) (PRODUC  
? OR EXPRESS? OR OPTIMIZ?)

FILE 'EMBASE'

24656 HETEROLOGOUS  
36978 FOREIGN  
196365 RECOMBINANT  
1841094 PROTEIN#  
1393403 PRODUC?  
1092766 EXPRESS?  
82286 OPTIMIZ?  
L78 9173 (HETEROLOGOUS OR FOREIGN OR RECOMBINANT) (5A)PROTEIN#(10A) (PRODUC  
? OR EXPRESS? OR OPTIMIZ?)

FILE 'HCAPLUS'

35433 HETEROLOGOUS

```

        53583 FOREIGN
        215028 RECOMBINANT
        2507260 PROTEIN#
        4739035 PRODUC?
        1080289 PRODN
        5257422 PRODUC?
                (PRODUC? OR PRODN)
        1446128 EXPRESS?
        360435 OPTIMIZ?
L79      26253 (HETEROLOGOUS OR FOREIGN OR RECOMBINANT) (5A)PROTEIN#(10A) (PRODUC
                ? OR EXPRESS? OR OPTIMIZ?)

```

FILE 'NTIS'

```

        358 HETEROLOGOUS
        390920 FOREIGN
        1887 RECOMBINANT
        20815 PROTEIN#
        383352 PRODUC?
        42085 EXPRESS?
        62468 OPTIMIZ?
L80      186 (HETEROLOGOUS OR FOREIGN OR RECOMBINANT) (5A)PROTEIN#(10A) (PRODUC
                ? OR EXPRESS? OR OPTIMIZ?)

```

FILE 'ESBIOBASE'

```

        15205 HETEROLOGOUS
        12571 FOREIGN
        98984 RECOMBINANT
        881143 PROTEIN#
        712812 PRODUC?
        696236 EXPRESS?
        42201 OPTIMIZ?
L81      9584 (HETEROLOGOUS OR FOREIGN OR RECOMBINANT) (5A)PROTEIN#(10A) (PRODUC
                ? OR EXPRESS? OR OPTIMIZ?)

```

FILE 'BIOTECHNO'

```

        14199 HETEROLOGOUS
        6070 FOREIGN
        125134 RECOMBINANT
        653195 PROTEIN#
        394590 PRODUC?
        452182 EXPRESS?
        16086 OPTIMIZ?
L82      8130 (HETEROLOGOUS OR FOREIGN OR RECOMBINANT) (5A)PROTEIN#(10A) (PRODUC
                ? OR EXPRESS? OR OPTIMIZ?)

```

FILE 'WPIDS'

```

        11979 HETEROLOGOUS
        52020 FOREIGN
        52731 RECOMBINANT
        195750 PROTEIN#
        2700178 PRODUC?
        159549 EXPRESS?
        61673 OPTIMIZ?
L83      6267 (HETEROLOGOUS OR FOREIGN OR RECOMBINANT) (5A)PROTEIN#(10A) (PRODUC
                ? OR EXPRESS? OR OPTIMIZ?)

```

TOTAL FOR ALL FILES

```

L84      136717 (HETEROLOGOUS OR FOREIGN OR RECOMBINANT) (5A) PROTEIN#(10A) (PRODU
                C? OR EXPRESS? OR OPTIMIZ?)

```

=> s 112 and 184

FILE 'MEDLINE'

L85                    5 L1 AND L73  
  
 FILE 'SCISEARCH'  
 L86                    5 L2 AND L74  
  
 FILE 'LIFESCI'  
 L87                    6 L3 AND L75  
  
 FILE 'BIOTECHDS'  
 L88                    6 L4 AND L76  
  
 FILE 'BIOSIS'  
 L89                    3 L5 AND L77  
  
 FILE 'EMBASE'  
 L90                    2 L6 AND L78  
  
 FILE 'HCAPLUS'  
 L91                    9 L7 AND L79  
  
 FILE 'NTIS'  
 L92                    0 L8 AND L80  
  
 FILE 'ESBIOBASE'  
 L93                    4 L9 AND L81  
  
 FILE 'BIOTECHNO'  
 L94                    2 L10 AND L82  
  
 FILE 'WPIDS'  
 L95                    2 L11 AND L83  
  
 TOTAL FOR ALL FILES  
 L96                    44 L12 AND L84  
  
 => s 160 and 184  
 FILE 'MEDLINE'  
 L97                    56 L49 AND L73  
  
 FILE 'SCISEARCH'  
 L98                    55 L50 AND L74  
  
 FILE 'LIFESCI'  
 L99                    42 L51 AND L75  
  
 FILE 'BIOTECHDS'  
 L100                   568 L52 AND L76  
  
 FILE 'BIOSIS'  
 L101                   65 L53 AND L77  
  
 FILE 'EMBASE'  
 L102                   70 L54 AND L78  
  
 FILE 'HCAPLUS'  
 L103                   196 L55 AND L79  
  
 FILE 'NTIS'  
 L104                   0 L56 AND L80  
  
 FILE 'ESBIOBASE'  
 L105                   48 L57 AND L81

```

FILE 'BIOTECHNO'
L106          74 L58 AND L82

FILE 'WPIDS'
L107          61 L59 AND L83

TOTAL FOR ALL FILES
L108          1235 L60 AND L84

=> s l108 and coli
FILE 'MEDLINE'
          272003 COLI
L109          33 L97 AND COLI

FILE 'SCISEARCH'
          261958 COLI
L110          29 L98 AND COLI

FILE 'LIFESCI'
          111372 COLI
L111          24 L99 AND COLI

FILE 'BIOTECHDS'
          50744 COLI
L112          140 L100 AND COLI

FILE 'BIOSIS'
          328942 COLI
L113          32 L101 AND COLI

FILE 'EMBASE'
          195802 COLI
L114          38 L102 AND COLI

FILE 'HCAPLUS'
          299483 COLI
L115          75 L103 AND COLI

FILE 'NTIS'
          2962 COLI
L116          0 L104 AND COLI

FILE 'ESBIOBASE'
          82752 COLI
L117          20 L105 AND COLI

FILE 'BIOTECHNO'
          94549 COLI
L118          32 L106 AND COLI

FILE 'WPIDS'
          32693 COLI
L119          19 L107 AND COLI

TOTAL FOR ALL FILES
L120          442 L108 AND COLI

=> s (l136 or l148 or l172 or l196 or l120)
FILE 'MEDLINE'
L121          56 (L25 OR L37 OR L61 OR L85 OR L109)

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FILE 'SCISEARCH'
L122      49 (L26 OR L38 OR L62 OR L86 OR L110)

FILE 'LIFESCI'
L123      37 (L27 OR L39 OR L63 OR L87 OR L111)

FILE 'BIOTECHDS'
L124      146 (L28 OR L40 OR L64 OR L88 OR L112)

FILE 'BIOSIS'
L125      60 (L29 OR L41 OR L65 OR L89 OR L113)

FILE 'EMBASE'
L126      50 (L30 OR L42 OR L66 OR L90 OR L114)

FILE 'HCAPLUS'
L127      111 (L31 OR L43 OR L67 OR L91 OR L115)

FILE 'NTIS'
L128      0 (L32 OR L44 OR L68 OR L92 OR L116)

FILE 'ESBIOBASE'
L129      29 (L33 OR L45 OR L69 OR L93 OR L117)

FILE 'BIOTECHNO'
L130      43 (L34 OR L46 OR L70 OR L94 OR L118)

FILE 'WPIDS'
L131      23 (L35 OR L47 OR L71 OR L95 OR L119)

TOTAL FOR ALL FILES
L132      604 (L36 OR L48 OR L72 OR L96 OR L120)

=> s l132 not 2004-2008/py
FILE 'MEDLINE'
      2828837 2004-2008/PY
      (20040000-20089999/PY)
L133      44 L121 NOT 2004-2008/PY

FILE 'SCISEARCH'
      5257377 2004-2008/PY
      (20040000-20089999/PY)
L134      35 L122 NOT 2004-2008/PY

FILE 'LIFESCI'
      610068 2004-2008/PY
L135      26 L123 NOT 2004-2008/PY

FILE 'BIOTECHDS'
      110412 2004-2008/PY
L136      79 L124 NOT 2004-2008/PY

FILE 'BIOSIS'
      2438788 2004-2008/PY
L137      50 L125 NOT 2004-2008/PY

FILE 'EMBASE'
      2465331 2004-2008/PY
L138      33 L126 NOT 2004-2008/PY

FILE 'HCAPLUS'
      5685072 2004-2008/PY

```

L139 75 L127 NOT 2004-2008/PY

FILE 'NTIS'

68767 2004-2008/PY

L140 0 L128 NOT 2004-2008/PY

FILE 'ESBIOBASE'

1416926 2004-2008/PY

L141 18 L129 NOT 2004-2008/PY

FILE 'BIOTECHNO'

586 2004-2008/PY

L142 43 L130 NOT 2004-2008/PY

FILE 'WPIDS'

4801415 2004-2008/PY

L143 4 L131 NOT 2004-2008/PY

TOTAL FOR ALL FILES

L144 407 L132 NOT 2004-2008/PY

=> dup rem l144

PROCESSING COMPLETED FOR L144

L145 201 DUP REM L144 (206 DUPLICATES REMOVED)

=> s leptin

FILE 'MEDLINE'

L146 13799 LEPTIN

FILE 'SCISEARCH'

L147 18045 LEPTIN

FILE 'LIFESCI'

L148 1942 LEPTIN

FILE 'BIOTECHDS'

L149 365 LEPTIN

FILE 'BIOSIS'

L150 16507 LEPTIN

FILE 'EMBASE'

L151 14251 LEPTIN

FILE 'HCAPLUS'

L152 15687 LEPTIN

FILE 'NTIS'

L153 22 LEPTIN

FILE 'ESBIOBASE'

L154 8624 LEPTIN

FILE 'BIOTECHNO'

L155 2512 LEPTIN

FILE 'WPIDS'

L156 977 LEPTIN

TOTAL FOR ALL FILES

L157 92731 LEPTIN

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=> s l157(10a)(ser or serine)
FILE 'MEDLINE'
      24227 SER
      104476 SERINE
L158      12 L146(10A) (SER OR SERINE)

FILE 'SCISEARCH'
      25468 SER
      60386 SERINE
L159      15 L147(10A) (SER OR SERINE)

FILE 'LIFESCI'
      12695 SER
      25076 SERINE
L160      3 L148(10A) (SER OR SERINE)

FILE 'BIOTECHDS'
      5928 SER
      5782 SERINE
L161      5 L149(10A) (SER OR SERINE)

FILE 'BIOSIS'
      26259 SER
      82532 SERINE
L162      12 L150(10A) (SER OR SERINE)

FILE 'EMBASE'
      24058 SER
      67554 SERINE
L163      14 L151(10A) (SER OR SERINE)

FILE 'HCAPLUS'
      38596 SER
      119700 SERINE
L164      17 L152(10A) (SER OR SERINE)

FILE 'NTIS'
      438 SER
      578 SERINE
L165      0 L153(10A) (SER OR SERINE)

FILE 'ESBIOBASE'
      14901 SER
      32396 SERINE
L166      14 L154(10A) (SER OR SERINE)

FILE 'BIOTECHNO'
      11924 SER
      28989 SERINE
L167      4 L155(10A) (SER OR SERINE)

FILE 'WPIDS'
      13584 SER
      11087 SERINE
L168      5 L156(10A) (SER OR SERINE)

TOTAL FOR ALL FILES
L169      101 L157(10A) (SER OR SERINE)

=> s l157 and ((ser or serine)(8a)(rich or level#) or (amino acid)(2a)composition)
FILE 'MEDLINE'
      24227 SER

```

104476 SERINE  
 97298 RICH  
 1728866 LEVEL#  
 3591 (SER OR SERINE) (8A) (RICH OR LEVEL#)  
 679698 AMINO  
 1545785 ACID  
 512917 AMINO ACID  
 (AMINO(W)ACID)  
 179800 COMPOSITION  
 10381 (AMINO ACID) (2A)COMPOSITION  
 L170 8 L146 AND ((SER OR SERINE) (8A) (RICH OR LEVEL#) OR (AMINO ACID) (2A  
 )COMPOSITION)

FILE 'SCISEARCH'

25468 SER  
 60386 SERINE  
 182902 RICH  
 1857333 LEVEL#  
 3200 (SER OR SERINE) (8A) (RICH OR LEVEL#)  
 436194 AMINO  
 1284495 ACID  
 229538 AMINO ACID  
 (AMINO(W)ACID)  
 433876 COMPOSITION  
 7145 (AMINO ACID) (2A)COMPOSITION  
 L171 7 L147 AND ((SER OR SERINE) (8A) (RICH OR LEVEL#) OR (AMINO ACID) (2A  
 )COMPOSITION)

FILE 'LIFESCI'

12695 SER  
 25076 SERINE  
 42324 RICH  
 519831 LEVEL#  
 1902 (SER OR SERINE) (8A) (RICH OR LEVEL#)  
 188499 "AMINO"  
 346634 "ACID"  
 128460 AMINO ACID  
 ("AMINO" (W) "ACID")  
 107815 COMPOSITION  
 4806 (AMINO ACID) (2A)COMPOSITION  
 L172 1 L148 AND ((SER OR SERINE) (8A) (RICH OR LEVEL#) OR (AMINO ACID) (2A  
 )COMPOSITION)

FILE 'BIOTECHDS'

5928 SER  
 5782 SERINE  
 5272 RICH  
 60173 LEVEL#  
 246 (SER OR SERINE) (8A) (RICH OR LEVEL#)  
 77138 AMINO  
 156885 ACID  
 56317 AMINO ACID  
 (AMINO(W)ACID)  
 43596 COMPOSITION  
 882 (AMINO ACID) (2A)COMPOSITION  
 L173 3 L149 AND ((SER OR SERINE) (8A) (RICH OR LEVEL#) OR (AMINO ACID) (2A  
 )COMPOSITION)

FILE 'BIOSIS'

26259 SER  
 82532 SERINE  
 134104 RICH



1945774 LEVEL#  
     3980 (SER OR SERINE) (8A) (RICH OR LEVEL#)  
     607898 AMINO  
 1529894 ACID  
     351102 AMINO ACID  
         (AMINO(W)ACID)  
     364911 COMPOSITION  
     19281 (AMINO ACID) (2A)COMPOSITION  
 L174       6 L150 AND ((SER OR SERINE) (8A) (RICH OR LEVEL#) OR (AMINO ACID) (2A  
             )COMPOSITION)

FILE 'EMBASE'

    24058 SER  
     67554 SERINE  
     86612 RICH  
 1965291 LEVEL#  
     3169 (SER OR SERINE) (8A) (RICH OR LEVEL#)  
     477055 "AMINO"  
 1561386 "ACID"  
     322430 AMINO ACID  
         ("AMINO" (W) "ACID")  
     162494 COMPOSITION  
     11083 (AMINO ACID) (2A)COMPOSITION  
 L175       10 L151 AND ((SER OR SERINE) (8A) (RICH OR LEVEL#) OR (AMINO ACID) (2A  
             )COMPOSITION)

FILE 'HCAPLUS'

    38596 SER  
     119700 SERINE  
     315641 RICH  
 2553316 LEVEL#  
     4948 (SER OR SERINE) (8A) (RICH OR LEVEL#)  
     1167276 AMINO  
     4574559 ACID  
     588346 AMINO ACID  
         (AMINO(W)ACID)  
     723003 COMPOSITION  
     1531580 COMPN  
     1961864 COMPOSITION  
         (COMPOSITION OR COMPN)  
     29911 (AMINO ACID) (2A)COMPOSITION  
 L176       26 L152 AND ((SER OR SERINE) (8A) (RICH OR LEVEL#) OR (AMINO ACID) (2A  
             )COMPOSITION)

FILE 'NTIS'

    438 SER  
     578 SERINE  
     9733 RICH  
 238143 LEVEL#  
     26 (SER OR SERINE) (8A) (RICH OR LEVEL#)  
     7322 AMINO  
     45258 ACID  
     2654 AMINO ACID  
         (AMINO(W)ACID)  
     64397 COMPOSITION  
     169 (AMINO ACID) (2A)COMPOSITION  
 L177       0 L153 AND ((SER OR SERINE) (8A) (RICH OR LEVEL#) OR (AMINO ACID) (2A  
             )COMPOSITION)

FILE 'ESBIOBASE'

    14901 SER  
     32396 SERINE

```

56532 RICH
717809 LEVEL#
2352 (SER OR SERINE) (8A) (RICH OR LEVEL#)
205248 AMINO
402935 ACID
113740 AMINO ACID
      (AMINO(W)ACID)
99818 COMPOSITION
2421 (AMINO ACID) (2A)COMPOSITION
L178 6 L154 AND ((SER OR SERINE) (8A) (RICH OR LEVEL#) OR (AMINO ACID) (2A
      )COMPOSITION)

```

FILE 'BIOTECHNO'

```

11924 SER
28989 SERINE
29372 RICH
367944 LEVEL#
1708 (SER OR SERINE) (8A) (RICH OR LEVEL#)
204625 AMINO
349810 ACID
154660 AMINO ACID
      (AMINO(W)ACID)
36875 COMPOSITION
5058 (AMINO ACID) (2A)COMPOSITION
L179 3 L155 AND ((SER OR SERINE) (8A) (RICH OR LEVEL#) OR (AMINO ACID) (2A
      )COMPOSITION)

```

FILE 'WPIDS'

```

13584 SER
11087 SERINE
41223 RICH
706149 LEVEL#
206 (SER OR SERINE) (8A) (RICH OR LEVEL#)
299450 AMINO
1143063 ACID
87042 AMINO ACID
      (AMINO(W)ACID)
820929 COMPOSITION
8849 COMPN
398425 COMPSN
979566 COMPOSITION
      (COMPOSITION OR COMPN OR COMPSN)
1210 (AMINO ACID) (2A)COMPOSITION
L180 3 L156 AND ((SER OR SERINE) (8A) (RICH OR LEVEL#) OR (AMINO ACID) (2A
      )COMPOSITION)

```

TOTAL FOR ALL FILES

```

L181 73 L157 AND ((SER OR SERINE) (8A) (RICH OR LEVEL#) OR (AMINO ACID) (2A
      ) COMPOSITION)

```

=> s (l169 or l181) not 2004-2008/py

FILE 'MEDLINE'

```

2828837 2004-2008/PY
      (20040000-20089999/PY)
L182 6 (L158 OR L170) NOT 2004-2008/PY

```

FILE 'SCISEARCH'

```

5257377 2004-2008/PY
      (20040000-20089999/PY)
L183 9 (L159 OR L171) NOT 2004-2008/PY

```

FILE 'LIFESCI'

610068 2004-2008/PY  
L184 2 (L160 OR L172) NOT 2004-2008/PY

FILE 'BIOTECHDS'

110412 2004-2008/PY  
L185 1 (L161 OR L173) NOT 2004-2008/PY

FILE 'BIOSIS'

2438788 2004-2008/PY  
L186 6 (L162 OR L174) NOT 2004-2008/PY

FILE 'EMBASE'

2465331 2004-2008/PY  
L187 10 (L163 OR L175) NOT 2004-2008/PY

FILE 'HCAPLUS'

5685072 2004-2008/PY  
L188 8 (L164 OR L176) NOT 2004-2008/PY

FILE 'NTIS'

68767 2004-2008/PY  
L189 0 (L165 OR L177) NOT 2004-2008/PY

FILE 'ESBIOBASE'

1416926 2004-2008/PY  
L190 7 (L166 OR L178) NOT 2004-2008/PY

FILE 'BIOTECHNO'

586 2004-2008/PY  
L191 6 (L167 OR L179) NOT 2004-2008/PY

FILE 'WPIDS'

4801415 2004-2008/PY  
L192 0 (L168 OR L180) NOT 2004-2008/PY

TOTAL FOR ALL FILES

L193 55 (L169 OR L181) NOT 2004-2008/PY

=> dup rem l193

PROCESSING COMPLETED FOR L193

L194 14 DUP REM L193 (41 DUPLICATES REMOVED)

=> d tot

L194 ANSWER 1 OF 14 MEDLINE on STN DUPLICATE 1  
TI Engineering Escherichia coli for increased productivity of serine  
-rich proteins based on proteome profiling.  
SO Applied and environmental microbiology, (2003 Oct) Vol. 69, No. 10, pp.  
5772-81.  
Journal code: 7605801. ISSN: 0099-2240.  
AU Han Mee-Jung; Jeong Ki Jun; Yoo Jong-Shin; Lee Sang Yup  
AN 2003497591 MEDLINE

L194 ANSWER 2 OF 14 MEDLINE on STN DUPLICATE 2  
TI Insulin resistance and lipodystrophy in mice lacking ribosomal S6 kinase  
2.  
SO Diabetes, (2003 Jun) Vol. 52, No. 6, pp. 1340-6.  
Journal code: 0372763. ISSN: 0012-1797.  
AU El-Haschimi Karim; Dufresne Scott D; Hirshman Michael F; Flier Jeffrey S;  
Goodyear Laurie J; Bjorbaek Christian  
AN 2003292836 MEDLINE

L194 ANSWER 3 OF 14 SCISEARCH COPYRIGHT (c) 2008 The Thomson Corporation on STN  
 DUPLICATE 3  
 TI Cooperation between insulin and leptin in the modulation of vascular tone  
 SO HYPERTENSION, (AUG 2003) Vol. 42, No. 2, pp. 166-170.  
 ISSN: 0194-911X.  
 AU Vecchione C; Aretini A; Maffei A; Marino G; Selvetella G; Poulet R;  
 Trimarco V; Frati G; Lembo G (Reprint)  
 AN 2003:672025 SCISEARCH

L194 ANSWER 4 OF 14 HCAPLUS COPYRIGHT 2008 ACS on STN  
 TI Acute and chronic leptin treatment mediate contrasting effects on  
 signaling, glucose uptake, and GLUT4 translocation in L6-GLUT4myc myotubes  
 SO Journal of Cellular Physiology (2003), 197(1), 122-130  
 CODEN: JCLLAX; ISSN: 0021-9541  
 AU Tajmir, Panteha; Kwan, Jamie Jun-Mae; Kessas, Mona; Mozammel, Shehzin;  
 Sweeney, Gary  
 AN 2003:713728 HCAPLUS  
 DN 140:1133

L194 ANSWER 5 OF 14 BIOSIS COPYRIGHT (c) 2008 The Thomson Corporation on STN  
 TI LEPTIN ENHANCES PDGF-DEPENDENT CELL GROWTH IN HEPATIC STELLATE CELLS:  
 INVOLVEMENT OF THE PI3K-AKT PATHWAY. .  
 SO Digestive Disease Week Abstracts and Itinerary Planner, (2003) Vol. 2003,  
 pp. Abstract No. 254. e-file.  
 Meeting Info.: Digestive Disease 2003. FL, Orlando, USA. May 17-22, 2003.  
 American Association for the Study of Liver Diseases; American  
 Gastroenterological Association; American Society for Gastrointestinal  
 Endoscopy; Society for Surgery of the Alimentary Tract.  
 AU Ikejima, Kenichi [Reprint Author]; Lang, Tie [Reprint Author]; Yoshikawa,  
 Mutsuko [Reprint Author]; Hirose, Miyoko [Reprint Author]; Kitamura,  
 Tsuneo [Reprint Author]; Takei, Yoshiyuki [Reprint Author]; Sato, Nobuhiro  
 [Reprint Author]  
 AN 2004:26045 BIOSIS

L194 ANSWER 6 OF 14 SCISEARCH COPYRIGHT (c) 2008 The Thomson Corporation on STN  
 DUPLICATE 4  
 TI Biphasic regulation of extracellular-signal-regulated protein kinase by  
 leptin in macrophages: role in regulating STAT3 Ser(727)  
 phosphorylation and DNA binding  
 SO BIOCHEMICAL JOURNAL, (15 JUN 2002) Vol. 364, Part 3, pp. 875-879.  
 ISSN: 0264-6021.  
 AU O'Rourke L; Shepherd P R (Reprint)  
 AN 2002:544834 SCISEARCH

L194 ANSWER 7 OF 14 EMBASE COPYRIGHT (c) 2008 Elsevier B.V. All rights reserved on STN  
 TI Ghrelin, an orexigenic signaling molecule from the gastrointestinal tract.  
 SO Current Opinion in Pharmacology, (1 Dec 2002) Vol. 2, No. 6, pp. 665-668.  
 Refs: 50  
 ISSN: 1471-4892 CODEN: COPUBK  
 AU Kojima, Masayasu (correspondence)  
 CS Molecular Genetics, Institute of Life Science, Kurume University, Kurume,  
 Fukuoka 839-0861, Japan. mkojima@lsi.kurume-u.ac.jp  
 AU Kangawa, Kenji  
 CS Department of Biochemistry, National Cardiovascular Center, Research  
 Institute, Fujishirodai, Suita, Osaka 565-8565, Japan.  
 AN 2002460419 EMBASE

L194 ANSWER 8 OF 14 MEDLINE on STN DUPLICATE 5  
 TI Leptin effect on endothelial nitric oxide is mediated through  
 Akt-endothelial nitric oxide synthase phosphorylation pathway.  
 SO Diabetes, (2002 Jan) Vol. 51, No. 1, pp. 168-73.

Journal code: 0372763. ISSN: 0012-1797.

AU Vecchione Carmine; Maffei Angelo; Colella Salvatore; Aretini Alessandra;  
Poulet Roberta; Frati Giacomo; Gentile Maria Teresa; Fratta Luigi;  
Trimarco Valentina; Trimarco Bruno; Lembo Giuseppe  
AN 2002045139 MEDLINE

L194 ANSWER 9 OF 14 EMBASE COPYRIGHT (c) 2008 Elsevier B.V. All rights reserved on STN DUPLICATE 6  
TI Evaluation of methods for determination of a reconstructed history of gene sequence evolution.  
SO Molecular Biology and Evolution, (2001) Vol. 18, No. 11, pp. 2040-2047.  
Refs: 31  
ISSN: 0737-4038 CODEN: MBEVEO  
AU Liberles, D.A. (correspondence)  
CS Department of Biochemistry, Stockholm Bioinformatics Center, Stockholm University, 106 91 Stockholm, Sweden. liberles@sbc.su.se  
AN 2001387705 EMBASE

L194 ANSWER 10 OF 14 SCISEARCH COPYRIGHT (c) 2008 The Thomson Corporation on STN  
TI Serum values of proinflammatory cytokines are inversely correlated with serum leptin levels in patients with advanced stage cancer at different sites  
SO JOURNAL OF MOLECULAR MEDICINE-JMM, (JUL 2001) Vol. 79, No. 7, pp. 406-414.  
ISSN: 0946-2716.  
AU Mantovani G (Reprint); Maccio A; Madeddu C; Mura L; Massa E; Mudu M C; Mulas C; Lusso M R; Gramignano G; Piras M B  
AN 2001:626038 SCISEARCH

L194 ANSWER 11 OF 14 MEDLINE on STN DUPLICATE 7  
TI Selective interaction between leptin and insulin signaling pathways in a hepatic cell line.  
SO Proceedings of the National Academy of Sciences of the United States of America, (2000 Feb 29) Vol. 97, No. 5, pp. 2355-60.  
Journal code: 7505876. ISSN: 0027-8424.  
AU Szanto I; Kahn C R  
AN 2000160956 MEDLINE

L194 ANSWER 12 OF 14 HCAPLUS COPYRIGHT 2008 ACS on STN  
TI Lipoapoptosis in beta-cells of obese prediabetic fa/fa rats. Role of serine palmitoyltransferase overexpression  
SO Journal of Biological Chemistry (1998), 273(49), 32487-32490  
CODEN: JBCHA3; ISSN: 0021-9258  
AU Shimabukuro, Michio; Higa, Moritake; Zhou, Yan-Ting; Wang, May-Yun; Newgard, Christopher B.; Unger, Roger H.  
AN 1998:797445 HCAPLUS  
DN 130:151958

L194 ANSWER 13 OF 14 MEDLINE on STN DUPLICATE 8  
TI Ligand-independent dimerization of the extracellular domain of the leptin receptor and determination of the stoichiometry of leptin binding.  
SO The Journal of biological chemistry, (1997 Jul 18) Vol. 272, No. 29, pp. 18304-10.  
Journal code: 2985121R. ISSN: 0021-9258.  
AU Devos R; Guisez Y; Van der Heyden J; White D W; Kalai M; Fountoulakis M; Plaetinck G  
AN 97364760 MEDLINE

L194 ANSWER 14 OF 14 MEDLINE on STN DUPLICATE 9  
TI A constitutively active version of the Ser/Thr kinase Akt induces production of the ob gene product, leptin, in 3T3-L1

adipocytes.  
SO Endocrinology, (1997 Aug) Vol. 138, No. 8, pp. 3559-62.  
Journal code: 0375040. ISSN: 0013-7227.  
AU Barthel A; Kohn A D; Luo Y; Roth R A  
AN 97375495 MEDLINE

=> d ab 12

L194 ANSWER 12 OF 14 HCAPLUS COPYRIGHT 2008 ACS on STN

AB We reported that the lipoapoptosis of beta-cells observed in fat-laden islets of obese fa/fa Zucker Diabetic Fatty (ZDF) rats results from overprod. of ceramide, an initiator of the apoptotic cascade and is induced by long-chain fatty acids (FA). Whereas the ceramide of cytokine-induced apoptosis may be derived from sphingomyelin hydrolysis, FA-induced ceramide overprod. seems to be derived from FA. We therefore semiquantified mRNA of serine palmitoyltransferase (SPT), which catalyzes the first step in ceramide synthesis. It was 2-3-fold higher in fa/fa islets than in +/- controls. [3H]Ceramide formation from [3H]serine was 2.2-4.5-fold higher in fa/fa islets. Triacsin-C, which blocks palmitoyl-CoA synthesis, and L-cycloserine, which blocks SPT activity, completely blocked [3H]ceramide formation from [3H]serine. Islets of fa/fa rats are unresponsive to the lipopenic action of leptin, which normally depletes fat and prevents FA up-regulation of SPT. To determine the role of leptin unresponsiveness in the SPT overexpression, we transferred wild type OB-Rb cDNA to their islets; now leptin completely blocked the exaggerated FA-induced increase of SPT mRNA while reducing the fat content. Beta-cell lipoapoptosis was partially prevented in vivo by treating prediabetic ZDF rats with L-cycloserine for 2 wk. Ceramide content and DNA fragmentation both declined 40-50%. We conclude that lipoapoptosis of ZDF rats is mediated by enhanced ceramide synthesis from FA and that blockade by SPT inhibitors prevents lipoapoptosis.

=> log y

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